

ILLEGIB

~~TOP SECRET~~

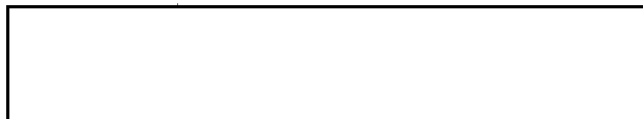
12083

Copy
9 Pages

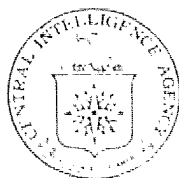
NPIC/R-157/64
March 1964

PHOTOGRAPHIC INTERPRETATION REPORT

KURUMOCH ROCKET ENGINE TEST FACILITY, USSR



25X1D



CIA

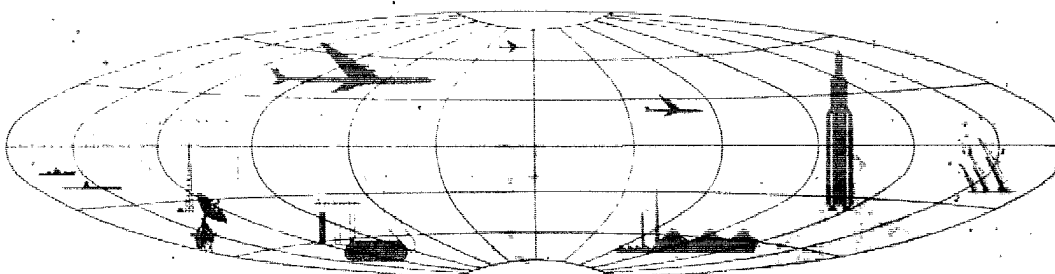


DIA

25X1



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

~~TOP SECRET~~

DECLASSIFICATION REVIEW BY NIMA / DoD

GROUP 1
Excluded from automatic
downgrading and declassification

TOP SECRET

25X1

NPIC/R-157/64

KURUMOCH ROCKET ENGINE TEST FACILITY, USSR

25X1D

SUMMARY

25X1

25X1D

25X1

25X1D

[redacted] photography [redacted] reveals changes that have taken place in the Kurumoch Rocket Engine Test Facility [redacted]

[redacted] and permits identification of significant details of the facility about which there has been some doubt. It can now be stated that the installation contains five test stands, including two large vertical test stands and three smaller test stands. The large vertical test stand first seen [redacted] is currently operational and contains a single test position. The other large test stand is in the final stage of construction and probably contains a single test

25X1D

position. One of the three smaller test stands is currently operational and probably contains multiple test positions. The other two test stands are probably operational, and each probably contains a single test position.

The two operational support facilities adjoining the two large test stands appear to be duplicates of each other except for minor differences. The apparent duplication may indicate either that the support facilities do not contain industrial processes which serve the entire test facility or that the items to be tested at the two large test stands are different.

INTRODUCTION

The purpose of this report is to update a previous NPIC report 1/ published in December 1963 on the Kurumoch Rocket Engine Test Facility [redacted] located at 53-31N 49-49E near Kuybyshev, USSR (Figure 1).

25X1A

The previous report on this installation was compiled from [redacted]

25X1D

25X1

25X1D

25X1

25X1D

[redacted] photography, the latest of which was obtained [redacted] In this report revisions and additions to information previously released are based on photography [redacted]

(Figure 2).

Included in this report are revisions of a number of rather significant items which have permitted the formulation of certain conclusions. To support these conclusions, which are presented in the final section of this study, certain previously reported information is repeated in the body of this report, which consists of four tables included in Figures 4 through 7. Items in these tables are keyed to a line drawing of

the test facility (Figure 3), which is based on [redacted] photography. A perspective drawing of a test stand or stands accompanies each table.

25X1D

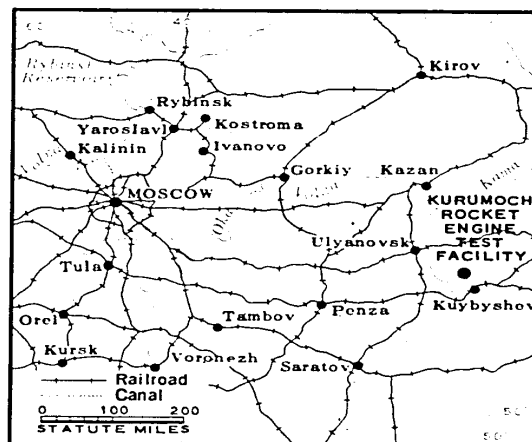


FIGURE 1. LOCATION OF KURUMOCH ROCKET ENGINE TEST FACILITY, USSR.

25X1

- 1 -

TOP SECRET

25X1

TOP SECRET

25X1

NPIC/R-157/64



FIGURE 2. KURUMOCH ROCKET ENGINE TEST FACILITY

25X1D

- 2 -

TOP SECRET

25X1

TOP SECRET

25X1

NPIC/R-157/64

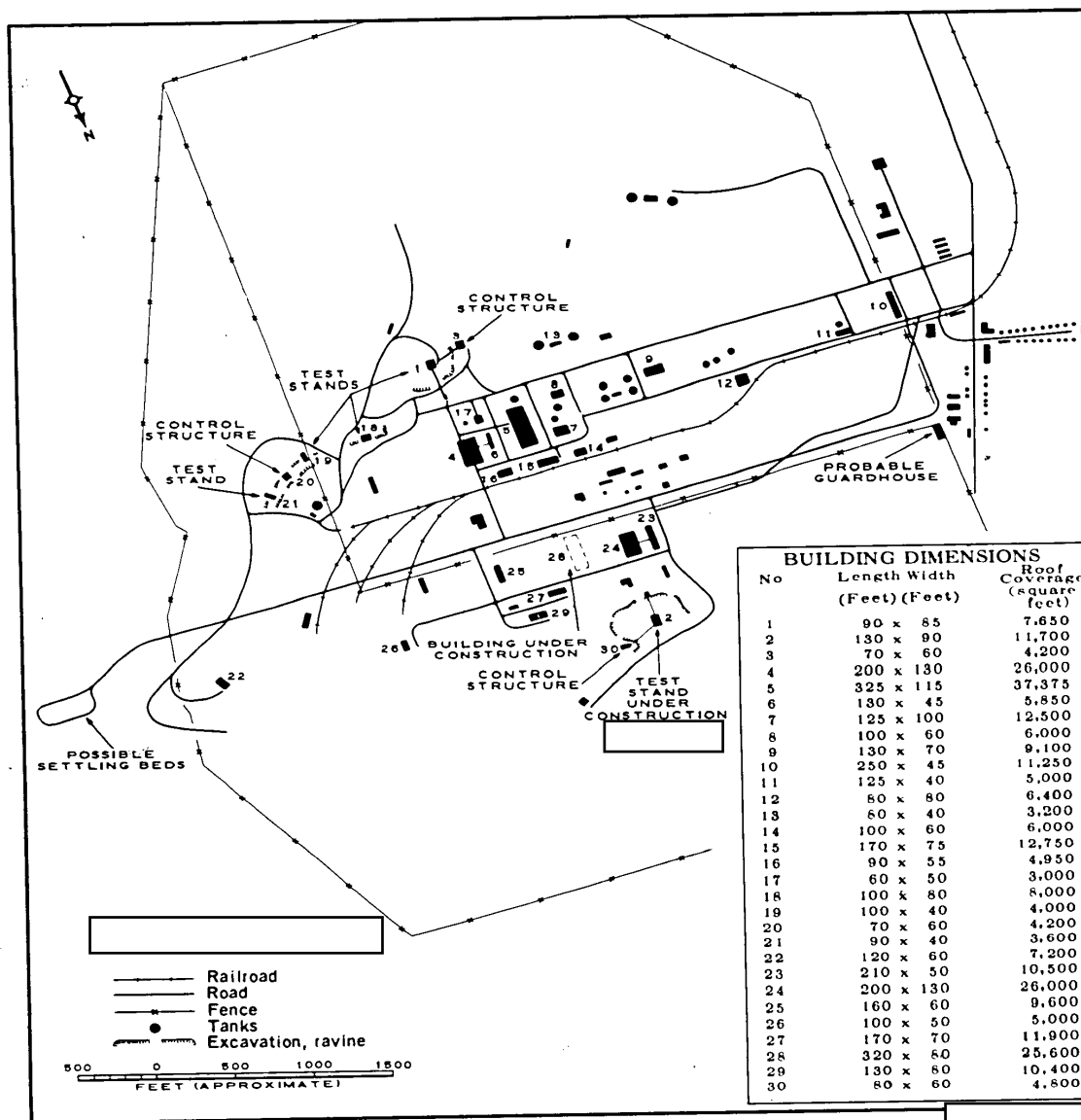


FIGURE 3. KURUMOCH ROCKET ENGINE TEST FACILITY.

TOP SECRET

25X1

TOP SECRET

25X1

NPIC/R-157/64

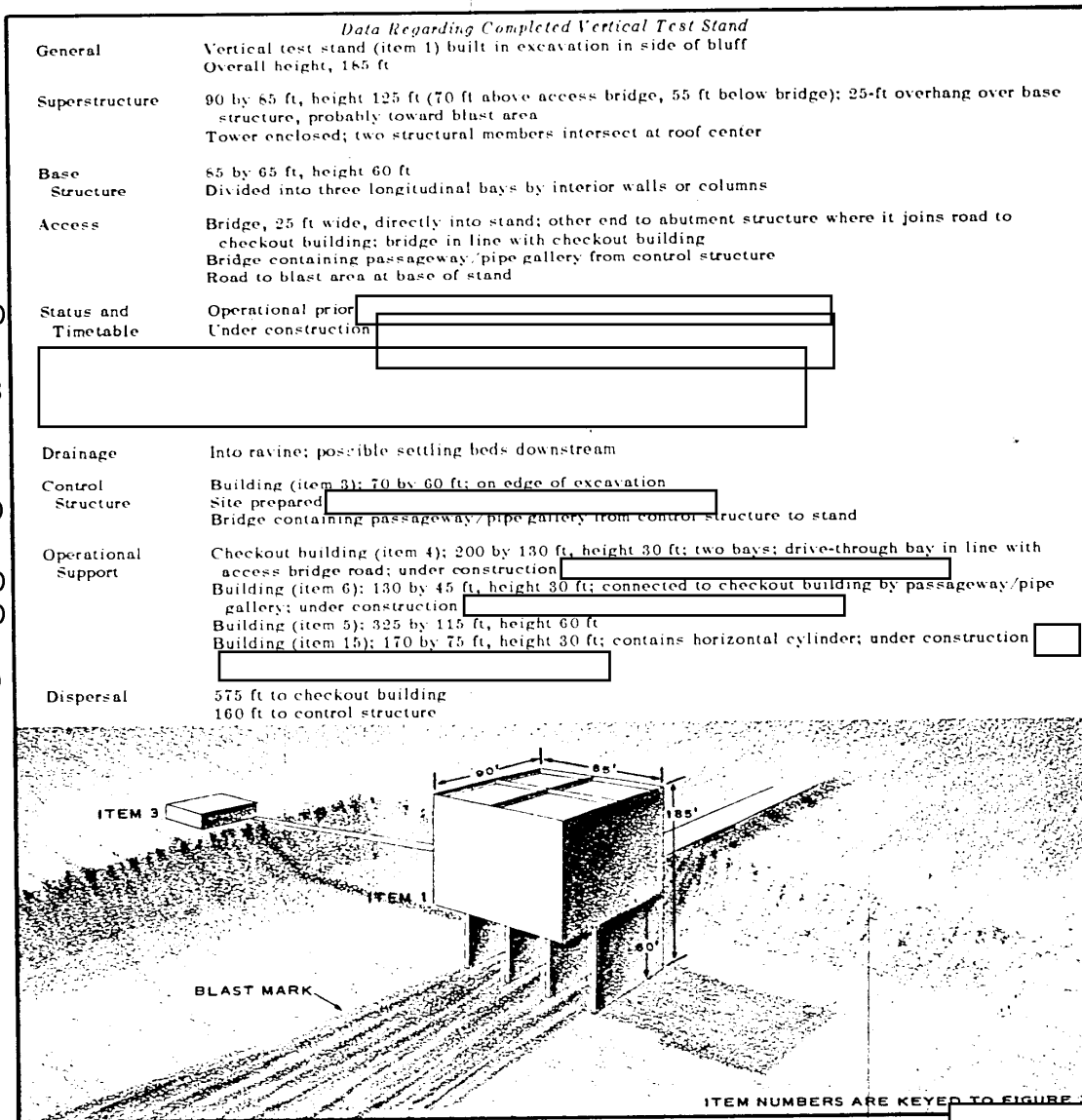


FIGURE 4. COMPLETED VERTICAL TEST STAND (Item 1, Figure 3).

TOP SECRET

25X1

25X1

TOP SECRET

25X1

NPIC/R-157/64

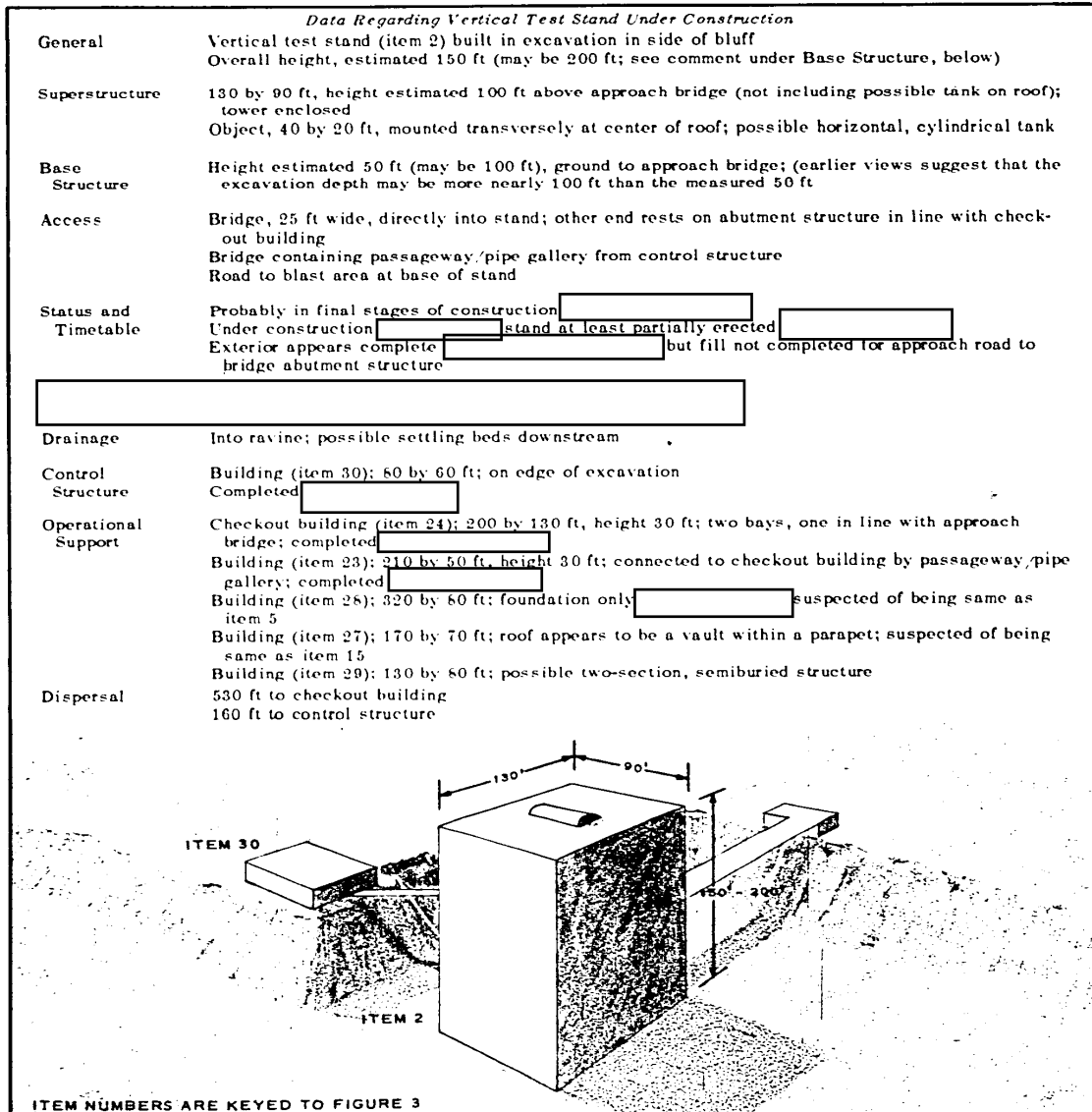


FIGURE 5. VERTICAL TEST STAND UNDER CONSTRUCTION (Item 2, Figure 3).

25X1

- 5 -

TOP SECRET

25X1

TOP SECRET

25X1

NPIC/R-157/64

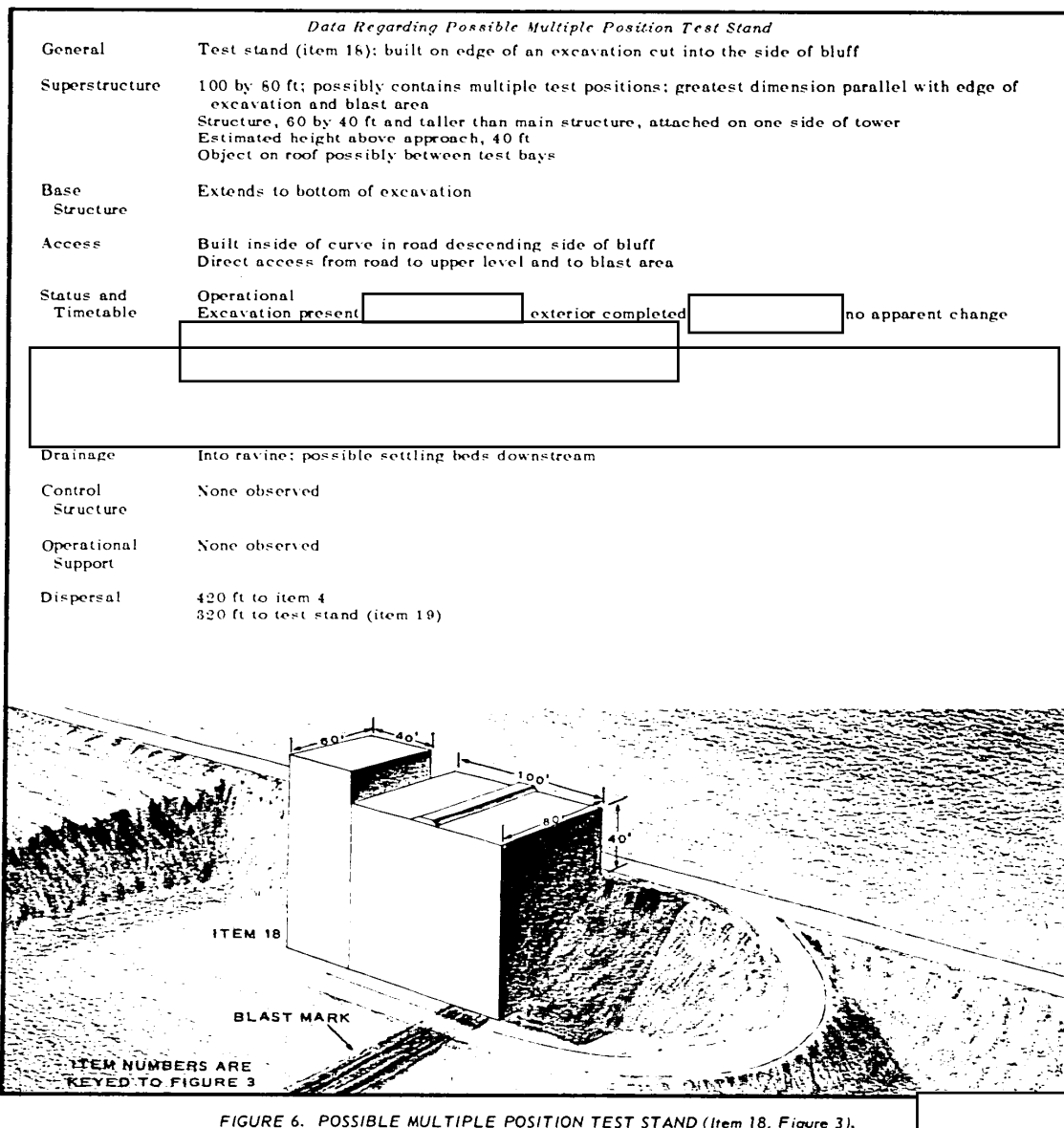


FIGURE 6. POSSIBLE MULTIPLE POSITION TEST STAND (Item 18, Figure 3).

25X1

- 6 -

TOP SECRET

25X1

TOP SECRET

25X1

NPIC/R-157/64

25X1D
25X1D
25X1D
25X1D
25X1B

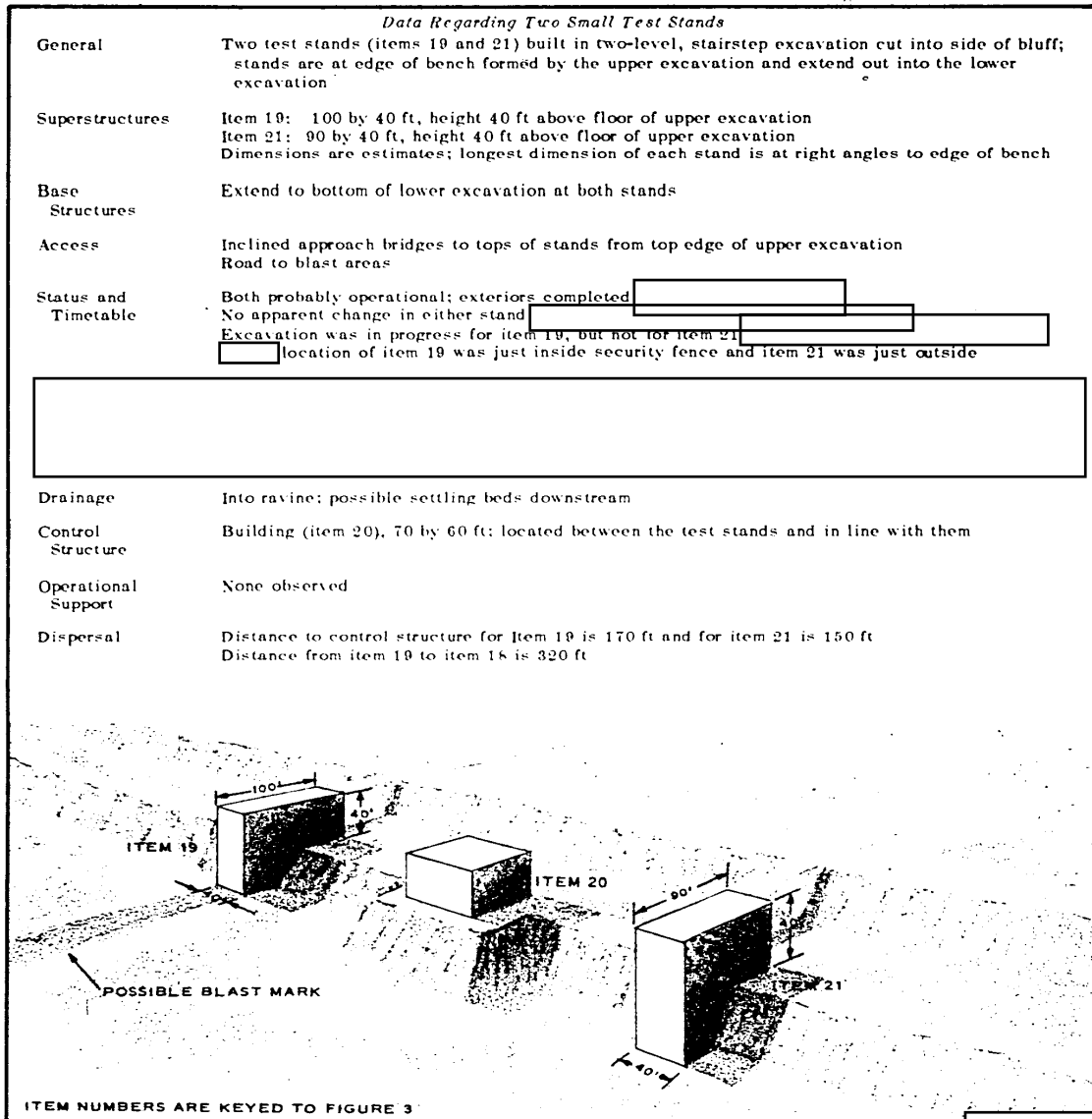


FIGURE 7. TWO SMALL TEST STANDS AND CONTROL STRUCTURE (Items 19, 20, and 21, Figure 3).

TOP SECRET

25X1

25X1

TOP SECRET

25X1

NPIC/R-157/64

CONCLUSIONS

Certain conclusions not previously attainable have been reached concerning details of the Kurumoch Rocket Engine Test Facility as a result of [redacted] photographic coverage. These conclusions are possible because of several factors. First, the new photography permits comparisons between the facility as it is now and as it has appeared at different times in the past. Second, the quality of the latest photography has made possible the taking of certain measurements and the discernment of certain shapes that could not be accomplished on earlier photography. [redacted]

Prior to the latest photographic coverage, the principal matters about which there had been some doubt were: (1) the number of test positions at the test stand first identified [redacted] (item 1, Figure 3); (2) the size of the test stand under construction (item 2); (3) the number of smaller test stands, and (4) the function(s) of the two buildings in the operational support facility adjoining the completed vertical test stand (item 1). 2/ 3/

The latest photography has permitted measurement of the vertical test stand under construction as well as of other structures, and this data has been presented on Figures 4 through 7. Other findings and conclusions are presented in the following numbered paragraphs, including statements regarding the status of the test stands, data concerning the number of test positions in each stand, and data concerning the operational support facilities.

1. The installation contains five test stands: a vertical test stand (item 1, Figure 3), a vertical test stand under construction (item 2), and three smaller test stands (items 18, 19, and 21). Adjoining each of the two vertical test stands is a support facility containing a check-out building and other structures.

2. The vertical test stand (item 1) is currently operational and contains one test position. The stand has a single symmetrical blast mark, the axis of which is centered on the stand with its width next to the stand being the same as the width of the stand. (For additional data, see Figure 4.)

3. The vertical test stand under construction (item 2) is in the final stages of construction. It is larger than the other vertical test stand and probably contains one test position. The construction status is indicated by the completion of the structure and lack of an access road; that it probably has one position is indicated by the shape of the stand. (For additional data, see Figure 5.)

4. One of the smaller stands (item 18) is currently operational and probably contains multiple test positions as indicated by its shape and the size and position of the blast mark. (For additional data, see Figure 6.)

5. The other two smaller stands (items 19 and 21) are similar in appearance, are different from the other stands, and are probably operational. The access bridge at each stand leads to the top of the stand. Each stand contains one test position; this is indicated by the presence of one centered possible blast mark at item 19, by the lack of apparent change [redacted] and by the shapes of the stands. (For additional data, see Figure 7.)

6. The operational support facilities adjoining the two large test stands are duplicates of each other in part and appear to be duplicates in many other respects. Items 4 and 24, 6 and 23 are matching pairs, and items 5 and 28, 15 and 27 are possible matching pairs. The apparent duplication may indicate either that the support facilities do not contain industrial processes which serve the entire test facility or that the items to be tested at the two large test stands are different.

TOP SECRET

25X1

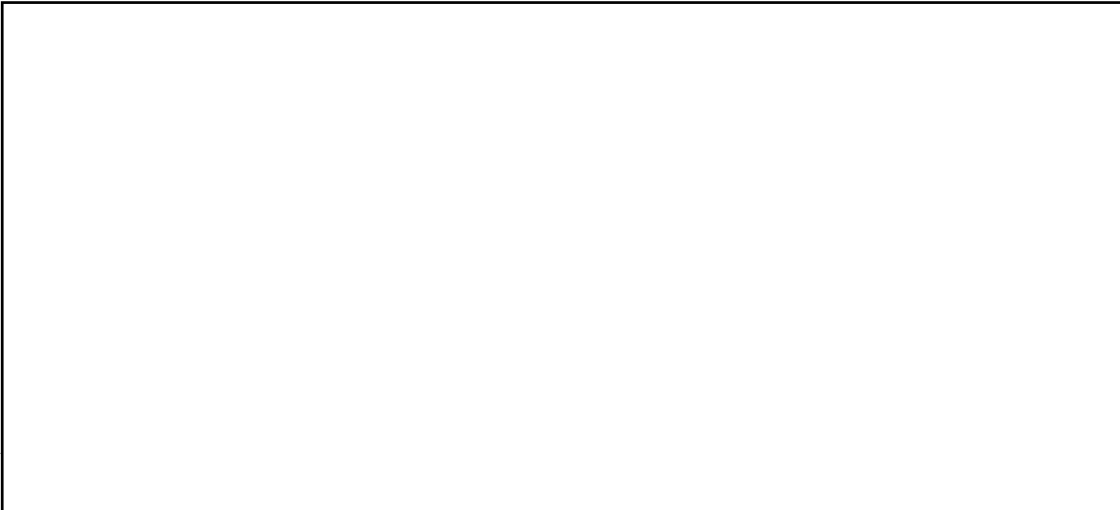
TOP SECRET

25X1

NPIC/R-157/64

REFERENCES

PHOTOGRAPHY



25X1D

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0165-17A, 3d ed, Jan 60, scale 1:200,000 (SECRET)

DOCUMENTS

25X1

1. NPIC. R-309/63, Kurumoch Rocket Engine Test Facility, USSR, Dec 63 (TOP SECRET)

25X1

2. USAF. ATIS-T-60-5, Kurumoch Rocket Engine Facility, 15 Sep 60 (TOP SECRET)

25X1

3. CIA. OSI. PEM-0387/12/63 Space Technology Laboratories, Inc., Dec 63 (TOP SECRET)

RELATED DOCUMENTS

25X1C

CIA. PIC/JR-1002/60, Propulsion Test Complex, Kurumoch, USSR, Nov 60 (SECRET)

25X1C

NPIC. B-47/61, Propulsion Test Complex, Kurumoch, USSR: Changes Dec 61 (TOP SECRET)

25X1D

25X1

25X1C

25X1

25X1C

NPIC. R-99/63, Kurumoch Rocket Engine Test Facility: Original Test Stand, Kurumoch, USSR, Jun 63 (TOP SECRET)

REQUIREMENT

CIA. PC-56-64

NPIC PROJECT

N-65/64

TOP SECRET

25X1